AMPEREX TRANSMITTING TUBE 261-A

R.F. Power Amplifier, Oscillator, A.F. Power Amplifier, Modulator

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier and Modulator—Class A

	Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1200
D.C. Grid Voltage		—55	—70
Peak A.F. Grid Voltage		50	65
D.C. Plate Current (ma.)	-	75	80
Plate Dissipation (watts)	100	75	96
Load Resistance (ohms)	_	4800	7600
Power Output (watts)	-	14	21
Distortion (% Second			
Harmonic)	_	5	3

GENERAL CHARACTERISTICS Filament Voltage 10-10.5 Filament Current (amps) 3.25 Amplification Factor 12.5 Grid to Plate Transconductance @ 100 ma. 4300 micromhos Direct Interelectrode Capacitances: Grid to Plate 9.0 μμf Grid to Filament 5.5 μμf Plate to Filament 3.5 μμf

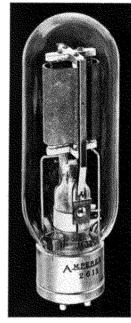


Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with modulation factor of 1.0)

A.F. Power Amplifier and Modulator—Class B

	Maximum Rating per Tube		Operation Tubes
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage		-72	-90
Load Resistance (ohms			
per tube)	_	1250	1675
Effective Load Resistance			
(Plate to Plate) (ohms)	_	5000	6700
Zero Signal Plate Current (m	α.) —	60	50
Peak A.F. Grid to Grid Volta	ge —	344	380
Max. Signal D.C. Plate	_		
Current (ma.)	210	400	400
Max. Signal Plate Input			
(watts)	260	400	500
Plate Dissipation (watts)	125	_	_
Max. Signal Driving Power			
(Approx.) (watts)	_	4	4.5
Max. Signal Plate Power			
Output (watts)	_	240	320

	Maximum Rating per Tube	Typical C	
A.C. Filament Voltage	_	10.5	10.5
D.C. Plate Voltage	1250	1000	1250
PD.C. Grid Voltage	400	-250	-300
Peak R.F. Grid Voltage		380	430
D.C. Plate Current (ma.)	175	170	166
Plate Input (watts)	220	170	208
Plate Dissipation (watts)	85	55	60
D.C. Grid Current			
(Approx.) (ma.)	50	10	8
Driving Power (Approx) (wa	rtts) —	3.5	3.5
Plate Power Output (watts)	_	115	148
Frequency Limit for Above			
Operation (mc.)	10	20	10
F.C.C. Broadcast Rating			
(watts)	125		125

R.F. Power Amplifier—Class B—Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	_	60	85
Peak R.F. Grid Voltage	_	100	110
D.C. Plate Current (ma.)	150	140	130
Plate Input (watts)	175	140	162
Plate Dissipation (watts)	125	95	107
D.C. Grid Current			
(Approx.) (ma.)	_	2.5	1.0
Driving Power at Peak			
Modulation (Approx.) (wa	tts)	3.5	3.6
Plate Power Output (watts)	-	45	55
Frequency Limit for Above			
Operation (mc.)	20	30	20

R.F. Power Amplifier or Oscillator—Class C Telegraphy

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	200	250
Peak R.F. Grid Voltage	_	340	385
D.C. Plate Current (ma.)	210	200	200
Plate Input (watts)	260	200	250
Plate Dissipation (watts)	125	55	80
D.C. Grid Current (Approx.) (ma.)	50	15	10
Driving Power (Approx.) (watts)	_	5	3.5
Plate Power Output (watts)		145	170
Frequency Limit for Above Operation (mc.)	20	30	20

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